



GENQUANTAA ACADEMY

LEARN | BUILD | DEPLOY | DELIVER

MASTERCLASS SERIES

MASTERCLASS #1

FORWARD DEPLOYED ENGINEER

Build AI Where the Work Happens

From Customer Problem to Production AI.



13-STAGE
ROADMAP



INDUSTRY
PRACTITIONER
MENTORS



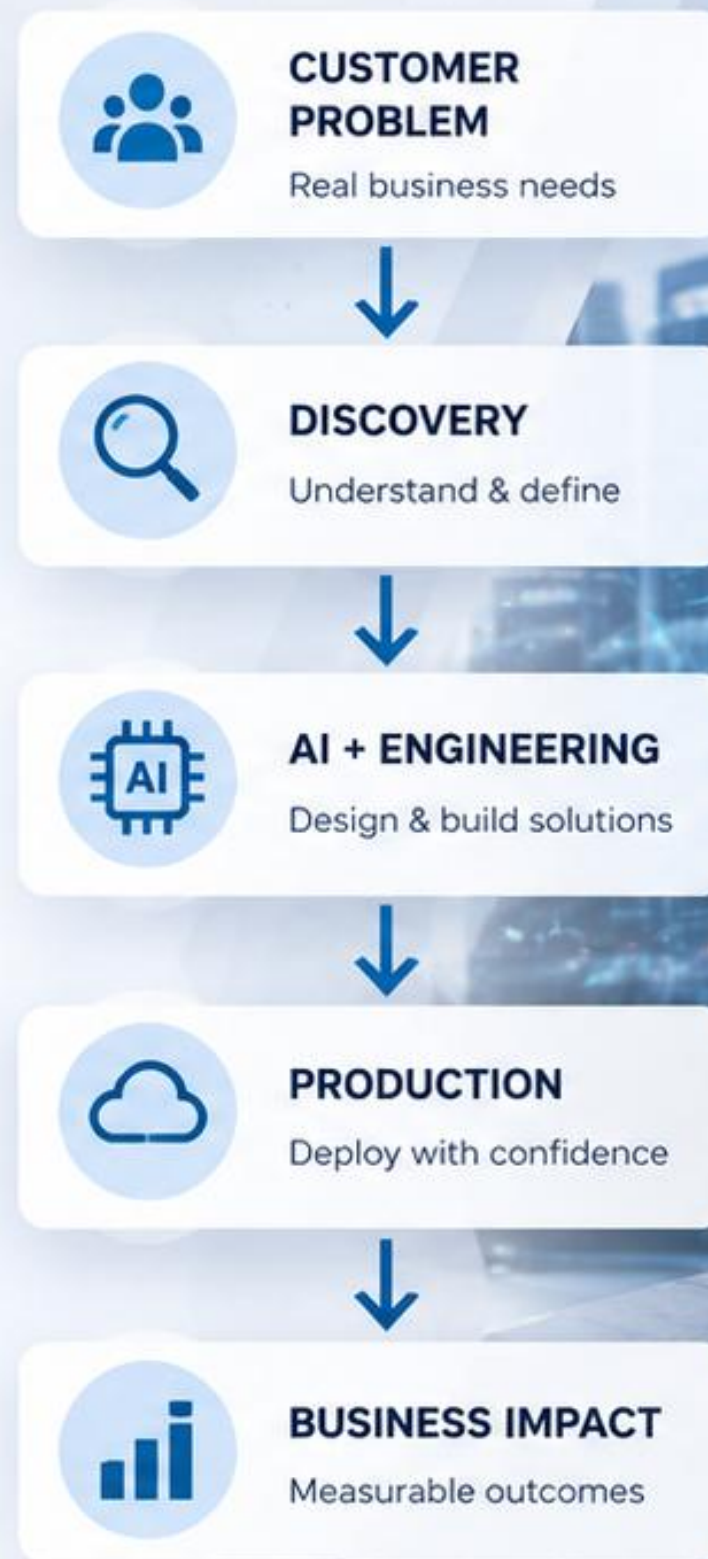
END-TO-END
CAPSTONE

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www.genquantaa.com

ENGINEERING
BUSINESS IMPACT
TOGETHER



PEOPLE
IDEAS
TECHNOLOGY
REAL IMPACT

AI
SOLUTIONS
FOR A
BRIGHTER
TOMORROW



FROM
POSSIBLE
TO PROGRESS

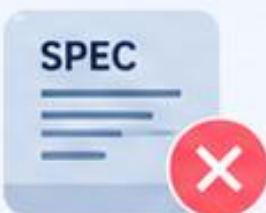
PEOPLE | SOLUTIONS | A BETTER TOMORROW

WHY FORWARD DEPLOYED ENGINEERING?

AI is moving from experiments to real business outcomes.

That shift is creating demand for a new kind of engineer — one who can operate at the intersection of technology and the customer.

01



THE PROBLEM

Most engineers are trained to build against a fixed specification.

But real AI-driven business problems rarely arrive as a clean spec — they start as a conversation, a workflow, or a pain point.



“Real problems are rarely well-defined.”

02



THE SHIFT

Enterprises are pushing AI out of the lab and into daily operations —

customer support, internal tools, analytics, workflow automation — which requires engineers who can work close to the business.



“AI is no longer an experiment. It's a business priority.”

03



THE OPPORTUNITY

Forward Deployed Engineers close this gap.

They combine full-stack, AI and cloud skills with customer understanding and business thinking — turning ambiguous problems into deployed solutions.



“From ambiguity to real impact.”



A NEW
KIND OF ENGINEER
FOR A NEW ERA



FDEs close the gap between technology and the customer.

This masterclass is built for engineers who want to lead that shift.



ROLE DEFINITION

WHAT IS A FORWARD DEPLOYED ENGINEER?

An engineer who operates at the intersection of engineering, AI, product, business and customers.



An FDE does not simply receive tickets and implement predefined requirements. Instead, an FDE:



FROM
IDEAS TO
IMPACT



“Engineers who work closest to the customer create the biggest impact.”

WHO IS THIS MASTERCLASS FOR?

Built for engineers who want to create real impact with AI.



THIS IS NOT A BEGINNER PROGRAMMING COURSE.

Designed for professionals with existing technical foundations.

Primary Audience

Engineers and technical professionals who want to move toward AI-first, customer-facing roles.



Software Engineers



Full-Stack Developers



Backend Developers



Data Engineers



AI/ML Engineers



Cloud Engineers



DevOps Engineers



Technical Consultants



Solution Engineers



Engineers with 2+ Years Experience

Secondary Audience

Also a strong fit for professionals who are:



Experienced developers who want customer-facing technical roles



Engineers interested in AI implementation



Professionals preparing for FDE / AI Engineer / Solution Engineer opportunities

SAME
ENGINEERING
SKILLS.
A BIGGER
HORIZON.



TECHNOLOGY



CUSTOMERS



BUSINESS IMPACT

Be the engineer
who builds what
matters.

PEOPLE
IDEAS
SOLUTIONS
A BRIGHTER TOMORROW



Best suited for engineers with existing technical foundations
who want to move toward AI-first, customer-facing engineering.

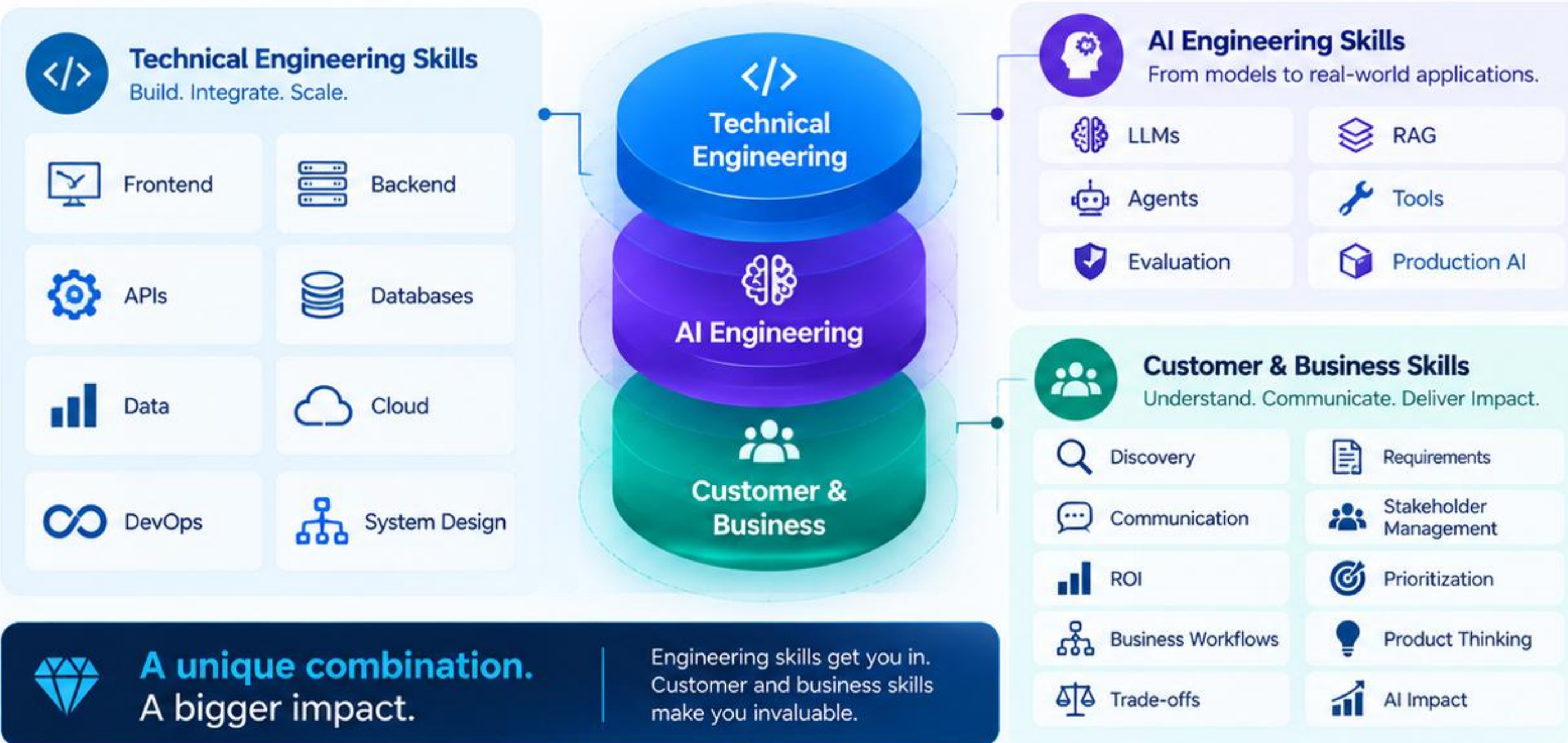
LEARN.
IDEAL.
DEPLOY.
DELIVER.



SKILL STACK

THE FDE SKILL STACK

Technical depth + AI/cloud fluency + customer skill + business acumen — combined.



MORE THAN
TECHNICAL SKILLS.
A BROADER IMPACT.



ENGINEERS TODAY.
IMPACT MAKERS TOMORROW

CURRICULUM ROADMAP

THE COMPLETE FDE ROADMAP

13 connected stages, from engineering foundations to enterprise AI delivery — with customer discovery and business acumen woven throughout.



FROM
FOUNDATION
TO IMPACT

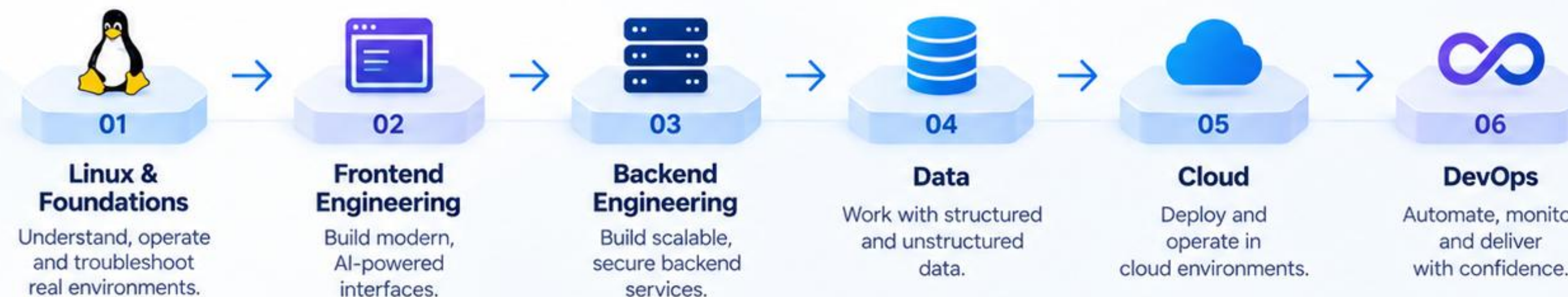


REAL SKILLS.
REAL PROJECTS.
REAL IMPACT.

TRACK 01

TECHNICAL ENGINEERING TRACK

Operate confidently across the full engineering stack — from systems to production.



KEY LEARNING AREAS

**Linux & Foundations**

- ✓ Shell commands
- ✓ Processes & filesystem
- ✓ Networking & SSH
- ✓ Debugging & logs

**Frontend Engineering**

- ✓ HTML / CSS / JavaScript
- ✓ React
- ✓ Component architecture
- ✓ API integration
- ✓ State management
- ✓ AI-powered UIs

**Backend Engineering**

- ✓ Python / Node.js
- ✓ REST APIs
- ✓ Authentication & security
- ✓ Databases (SQL / NoSQL)
- ✓ Async processing
- ✓ Logging & error handling

**Cloud & DevOps**

- ✓ AWS / Azure / GCP
- ✓ Containers & Docker
- ✓ CI/CD pipelines
- ✓ Monitoring & logging
- ✓ Deployment strategies
- ✓ Infrastructure as Code (IaC)

BUILD
DEPLOY
SCALE
REPEAT



FROM CODE
TO CUSTOMER IMPACT.



Build real engineering capabilities — the foundation for AI and customer delivery.



TOOLS TO
REAL-WORLD IMPACT.



TRACK 02

AI ENGINEERING TRACK

Build reliable AI-powered applications — not simple chatbots.



KEY LEARNING AREAS



Build AI systems that work in the real world — with reliability, security and business value.



BEYOND CHATBOTS.
TOWARDS IMPACT.

REAL
INTELLIGENCE.
REAL
APPLICATIONS.



FROM MODELS
TO MEASURABLE
BUSINESS IMPACT.

TRACK 03

CUSTOMER & BUSINESS TRACK

Go beyond code. Learn to understand customers, solve real problems and drive business impact.

KEY LEARNING AREAS



Customer Discovery

Understand customer problems, needs and user personas.



Requirements & Solution Design

Translate business needs into technical solutions.



Business Acumen

Learn key business metrics, ROI and value drivers.



Stakeholder Management

Communicate and influence across technical and business teams.



Product Thinking

Think like a product builder — from MVP to scale.



Go-to-Market & Delivery

Learn how solutions move from prototype to production and deliver real impact.

TOOLS & FRAMEWORKS



User Interviews & Surveys



Problem Framing



Business Case & ROI



Agile & Product Practices



Roadmapping & Prioritization



Change Management



Great engineers don't just build solutions.
They solve real customer problems.



FROM INSIGHTS
TO IMPACT.

TECHNOLOGY
CREATES OPTIONS.
CUSTOMERS
CREATE IMPACT.

UNDERSTAND.
SOLVE.
DELIVER.

TRACK 04

REAL-WORLD PROJECTS TRACK

Apply your skills. Build end-to-end solutions. Create measurable impact.

IDEAS
INTO SOLUTIONS.
SOLUTIONS
INTO IMPACT.



Clinical Data Lake Modernization

Ingest, transform and unify clinical data from multiple sources (Oracle, CSV, API) using ADF + Databricks.

TECHNOLOGIES



OUTCOMES

- ✓ Automated data ingestion (Auto Loader)
- ✓ Schema evolution & enforcement
- ✓ Scalable and reusable pipelines



Patient Insights & Analytics

Build analytics solutions to understand patient trends, trial performance and site productivity.

TECHNOLOGIES



OUTCOMES

- ✓ Interactive dashboards
- ✓ Actionable insights for stakeholders
- ✓ Improved decision making



AI-Powered Clinical Assistant

Develop an AI assistant using LLMs + RAG to answer clinical and study-related questions from enterprise data.

TECHNOLOGIES



OUTCOMES

- ✓ Domain-specific Q&A
- ✓ Secure and governed access
- ✓ Reduced time to find information



Stakeholder Reporting Portal

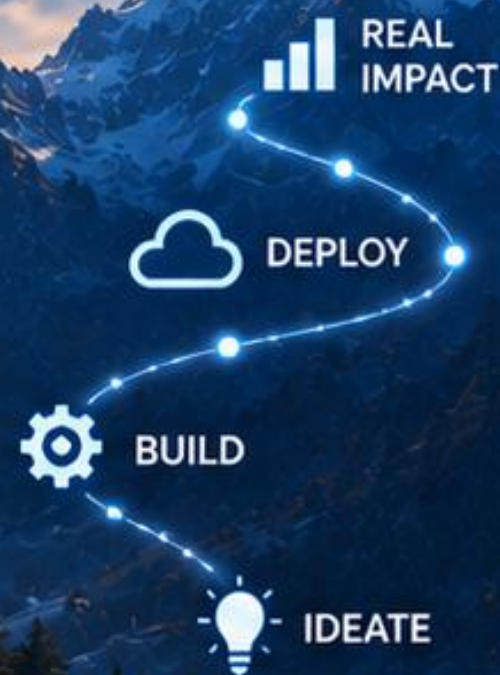
Build a full-stack application for study reporting with role-based access, real-time data and visualization.

TECHNOLOGIES



OUTCOMES

- ✓ Role-based dashboards
- ✓ Real-time reporting
- ✓ Better collaboration and transparency



From learning to doing — **build projects that matter.**



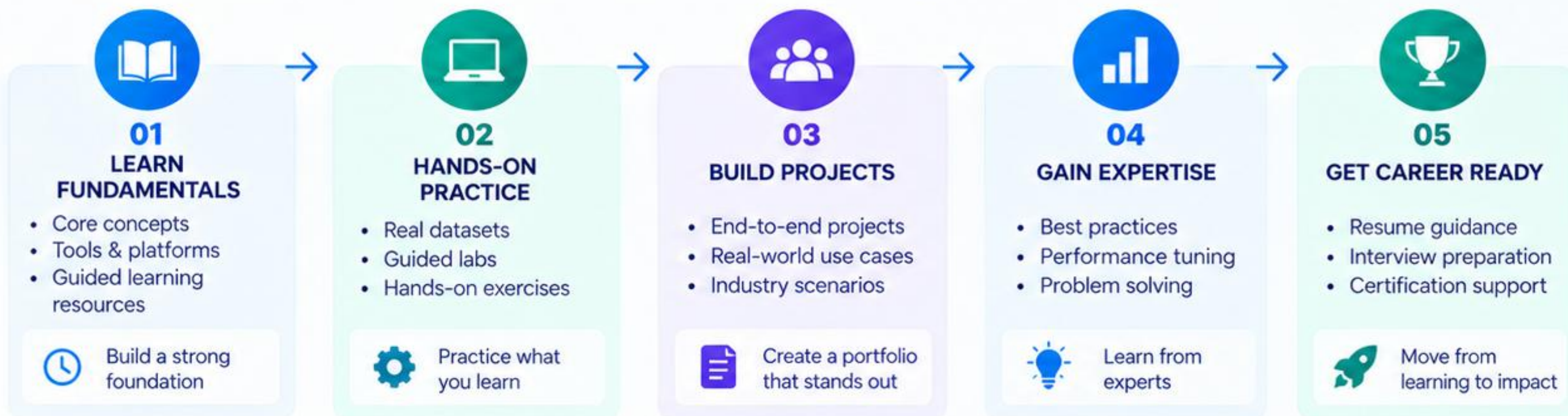
REAL PROJECTS.
REAL SKILLS. REAL IMPACT.

LEARN TODAY.
BUILD TOMORROW.
MAKE AN IMPACT.

TRACK 05

YOUR LEARNING JOURNEY

Structured. Hands-on. Project-driven. Career-ready.



WHY LEARN WITH US?



A clear path from learning to a **brighter future.**



LEARN TODAY.
LEAD TOMORROW.

SAME
LEARNING.
A BRIGHTER
TOMORROW.

SKILLS
CREATE OPPORTUNITIES.
LEARNING
CREATES FUTURES.

TRACK 06

WHAT YOU'LL GAIN

New skills. Real confidence. Bigger opportunities.



Practical Skills

Apply what you learn in real-world scenarios and tools.



Industry Relevance

Work on use cases that reflect today's business challenges.



Expert Guidance

Learn from industry professionals with hands-on experience.



Certifications Support

Get guidance to earn recognized certifications.



Stronger Network

Connect with peers, mentors and industry experts.



Career Growth

Build a portfolio, boost confidence and unlock new opportunities.

WHAT LEARNERS SAY



"The masterclass gave me practical skills and confidence to work on real projects."

Priya S.
Data Engineer



"The hands-on approach and expert guidance made a huge difference in my learning journey."

Rahul K.
Azure Data Engineer



"I now feel more confident and better prepared for new opportunities."

Anjali M.
Analytics Professional



Invest in your skills today. **Create a brighter tomorrow.**



LEARN. GROW.
ACHIEVE. TOGETHER.

LEARN.
GROW.
ACHIEVE.
BELONG.

SAME
LEARNING.
A BRIGHTER
TOMORROW.

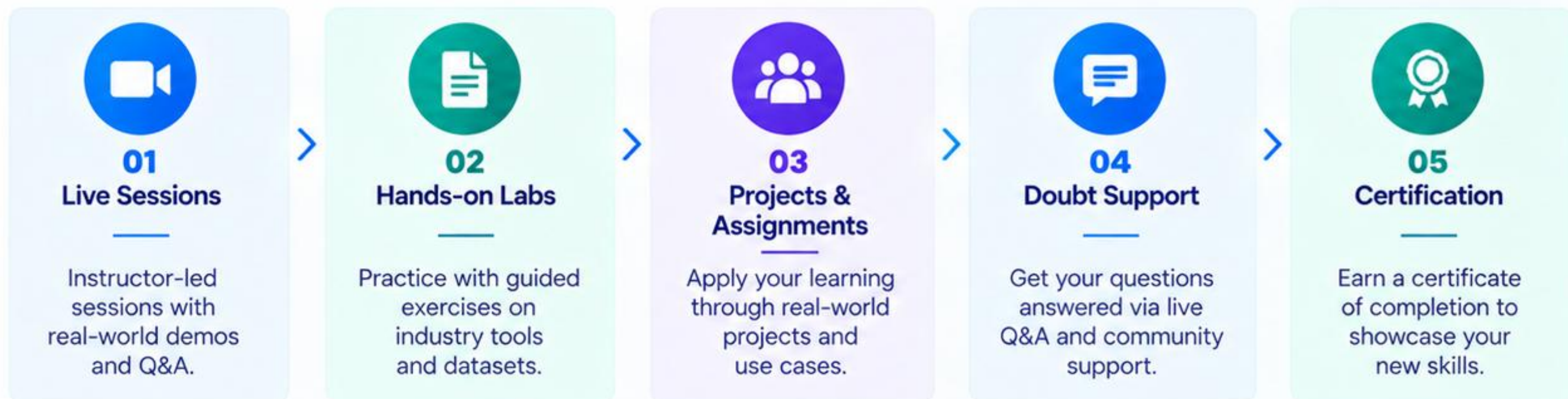


TRACK 07

HOW THE MASTERCLASS WORKS

A practical, structured and engaging learning experience.

STRUCTURED
LEARNING.
FLEXIBLE ACCESS.
REAL PROGRESS.



LEARNING FEATURES



Learn. Practice. Build. Grow. — **The right way.**



PRACTICAL LEARNING.
REAL SKILLS. LASTING IMPACT.

SKILLS
TODAY.
OPPORTUNITIES
TOMORROW.

Learn
Practice
Build
Grow

Big Skills!
Brighter
Future



04

Cloud Solution

Design a scalable solution on Azure using cloud-native services.

Azure

Synapse

Data Factory

Security



05

Capstone Project

Work on an end-to-end project with mentorship and present your solution.

Real Data

Mentorship

Presentation

Impact

TRACK 09

OUR IMPACT

Real learners. Real growth. Real opportunities.

**5,000+**Learners
Trained**80%**Career
Improvement**1,200+**Projects
Completed**300+**Hiring Partner
Connections

SUCCESS STORIES



"The masterclass helped me build real projects and gain confidence. I landed a Data Engineer role within 3 months!"

Sneha R.

From Student to Data Engineer

Now at Microsoft



"The hands-on labs and expert guidance gave me practical skills that I use every day in my job."

Arjun M.

From Analyst to Analytics Engineer

Now at Amazon



"Great learning experience with real-world projects and excellent support. Highly recommended!"

Divya K.

From Fresher to Cloud Engineer

Now at Accenture



Your success is our **greatest achievement.**



LEARN TODAY.
ACHIEVE TOMORROW.



PEOPLE
LEARN.
CAREERS GROW.
INDUSTRIES
MOVE FORWARD.

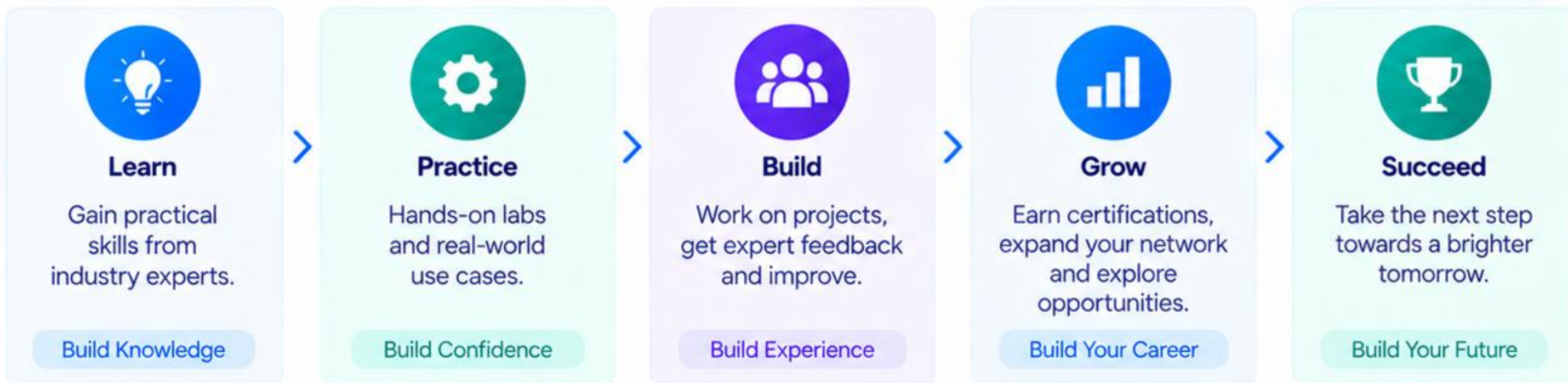
BIGGER
SKILLS.
BRIGHTER
TOMORROWS.



TRACK 10

YOUR LEARNING JOURNEY

From curiosity to career success — we're with you at every step.



WHY CHOOSE GENQUANTAA ACADEMY?



Start your journey today. **A brighter tomorrow awaits.**



LEARN. GROW.
ACHIEVE. TOGETHER.

SAME
LEARNERS.
BRIGHTER
TOMORROWS.

SKILLS
TODAY.
OPPORTUNITIES.
TOMORROW.